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WASHINGTON
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Futuristic interpretation: Brookings Hall recently served as a backdrop for nine outdoor productions of "Antigone 5000," a futuristic interpretation of Sophocles' "Antigone." Senior Risa Shargel (above) played the Choras (leader of the chorus). The Performing Arts Area production was directed by Diana Lee, assistant professor in performing arts, and choreographed by Gale Ormiston, artist-in-residence. Alan Schilling, artist-in-residence, wrote the original musical score.

Portrait of a comet

Using a million-dollar instrument, WU space scientist looks to Halley for clues about our solar system's birth

As if in some offhand reference to human lifetimes, Halley's comet punctuates earth history every 76 years, bringing notice of great events in the affairs of man.

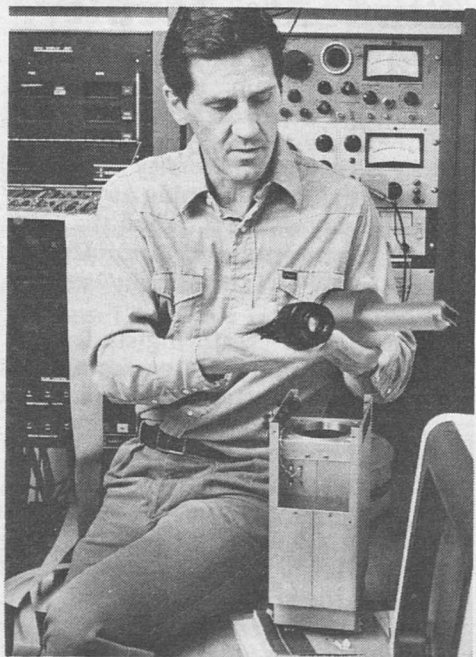
More often than not, Halley's comet has been a harbinger of doom; a fiery telegram from the gods carrying woeful tidings for kings and peasants alike. But this year's visit is likely to bring messages of more scientific substance, says William H. Smith, Ph.D., WU professor of chemistry and a fellow at the McDonnell Center for the Space Sciences. Smith looks to Halley for clues to the birth of the planets and to the nature of the solar nebula that formed them.

Smith will decode the comet's messages with the aid of a million-dollar instrument he developed during the last 10 years, called SPIFI (Servo-controlled Polarimetric Imaging Fabry-Perot Interferometer). The unique data SPIFI collects will produce an intimate portrait of one of the oldest objects in the solar system.

"According to a widely accepted theory, comets are primitive remnants of the formation of the solar system some 4.6 billion years ago," explains Smith. "If that is true, we can learn a great deal from the history that the comet retains in its nucleus."

The problem is that no one has ever seen a comet nucleus, he says.

Comets, most scientists agree, are loosely packed balls of water ice, dust and rocks — dirty snowballs — that every now and again fly past our neck of the heavenly woods. Scientists estimate that 100 billion comets are contained in a vast cloud sur-



William Smith with a component of SPIFI, the million-dollar instrument designed to record comet chemistry.

rounding the solar system beyond the orbits of Pluto and Neptune.

Occasionally, a comet will be nudged out of the cloud by the gravitational jerk of a passing star. The errant ice-ball might be launched into deep outer space, never to return; or it might be bumped into our neighborhood and, like comet Halley, fall into a long, cigar-shaped orbit around the sun.

When Halley is well away from the sun, it barrels through space as a solid ball of ice and rocks. But as it nears the sun, solar radiation gradually cooks the surface. The ice changes to gas, releasing the dust and rocks frozen in the nucleus. These gases and particles form a roughly spherical cloud — the coma — around the comet. Although the nucleus may be only several miles in diameter (Halley's is estimated about four miles across), comas routinely measure larger than earth and occasionally expand to Jupiter's size.

When Halley makes its closest approach to the earth (coming within 39 million miles) during March and April of next year, Smith will position SPIFI in the Southern Hemisphere for maximum visibility.

The heart of SPIFI is a charged coupled device camera (CCD), an in-

Continued on p. 7

Students against hunger sponsor awareness week

Hunger expert Carol Joy, who served as an educational consultant to the ABC television program 20/20 and the Live Aid concert, will speak on combating famine at 4 p.m. Thursday, Nov. 14, in Graham Chapel.

Joy's talk is part of Hunger Awareness Week, which will be held Nov. 11-16 at the University. The week's events include canned food drives, group fasting and fund-raising efforts. All activities are free and open to the public.

Joy is author of an educational guide titled *World Hunger: Learning To Meet The Challenge*. The publication is used in schools and universities across the country.

In preparation for Hunger Awareness Week, a soup and bread luncheon and discussion will be held at 12:30 p.m. Thursday, Nov. 7, at the Newman Center. The topic is "Poverty as Powerlessness."

At 8 p.m. Wednesday, Nov. 13, a coffee house event will be held in the Gargoyle, Mallinckrodt Center. A jazz band will perform. Admission is free, but hunger donations will be accepted.

Beginning at noon Friday, Nov. 15, and ending at 6 p.m. Saturday, Nov. 16, a 30-hour fast-a-thon will be held throughout the campus and St. Louis community. Individuals participating will solicit pledges for each hour they fast. All money raised will go to three national hunger-relief organizations.

Informational booths on world hunger will be set up in Mallinckrodt and Wohl centers during Hunger Awareness Week. A fast-a-thon brochure will be available. The booths will be open from 10:45 a.m. to 2 p.m. Monday through Friday in Mallinckrodt and 5 to 7 p.m. Monday through Friday in Wohl Center.

As part of the week's events, an art sale will be held Monday through Friday from 10:45 a.m. to 2 p.m. in the downstairs gallery in Mallinckrodt Center. Proceeds from the sale will go toward hunger relief. The sale is sponsored by the Fine Arts Council.

In addition, Chimes, the honorary junior women's society, and Alpha Phi Omega (APO), a service fraternity, will sponsor canned food drives. Chimes' can drive will be Nov. 18-22 and APO's will be held throughout Hunger Awareness Week.

Hunger Awareness Week at WU is part of the National Student Campaign Against Hunger. WU Food For All, a Campus Y group, is coordinating the event. The co-sponsors are Action for Peace, APO, Chimes, the College Democrats, the College Republicans, the Women's Programming Board, CIRCuit, People Organized for Community Action (P.O.C.A.), Inter-Varsity Christian Fellowship, Hillel House, Newman Center, the Fine Arts Council, Community, the Gargoyle Committee and Student Life.

For more information, call Paula V. Mehmel at 889-5010.



Jean Ensminger surrounded by memorabilia from her years in Africa. "Africans are masters at making the most of their scarce resources," she says.

Examining world hunger

Anthropologist's work in Kenya forms basis of class

Students enrolled in the new "Anthropology 250, Famine and World Hunger" course aren't likely to hear the professor suggest education as a way to end famine in Africa.

"There is a general misconception among many Americans that all we need to do to combat the hunger dilemma is educate Africans in Western farming, technology and soil science," says Jean Ensminger, Ph.D., the WU assistant professor of anthropology who is teaching the class. "That is a simplistic notion."

"Africans are masters at making the most of their scarce resources," continues Ensminger. "Given their constraints, they are probably behaving in the most effective manner."

"In most cases," Ensminger adds, "the problem is not the Africans' lack of knowledge, but rather constraints put upon them that are beyond their control, such as low prices set by the government for the food they sell in the marketplace, and current international relations."

"The government pays the farmers low prices for the food, and then sells it to the consumers at a higher price," Ensminger explains. "The profits from this arrangement are used to run the government, to pay international debts owed to commercial banks in the West, and to international lending organizations such as the International Bank for Reconstruction and Development (World Bank)."

"The situation today is compounded by the fact that, in the past, these same lending institutions have favored agricultural development projects geared toward non-food cash crops like cotton for export," says Ensminger.

"Anthropology 250, Famine and World Hunger" is based on Ensminger's experiences and research of pastoral nomadic tribes and food production in Kenya, where she lived and conducted research for five

years. The three-credit elective course explores why hunger is becoming more commonplace, particularly in Africa, and debates proposed solutions to the problem. It also focuses on various issues which affect hunger, such as poverty, ecology, politics and technology.

Ensminger has been interested in the complexities of famine for ten years. She was working in Kenya during the last great Sahelian famine, which struck Africa between 1968 and 1974. That experience inspired her to study the problem extensively when she returned in 1978 to live for three years with the Orma tribe. She recently received two grants to return to the Orma next May for a year of further research.

Ensminger says pastoral nomads such as the Orma are particularly devastated by the current drought in Africa because they depend on livestock for food. "While farmers can usually replant as soon as the rains return, it takes herders many years to rebuild a herd after a severe drought," she adds.

"But even in 'normal' years, hunger is a chronic problem," Ensminger says. "There are typically two dry seasons in Kenya. Cows give little milk during the dry season, and the pastoralists use milk for most of their diet."

"Nowadays people are going into debt during the dry season by purchasing food on credit at the local shop," Ensminger says. "The interest rates are exorbitant. While this meets the short-term need for food, it aggravates the long-term problem of poverty."

"In the end," Ensminger continues, "those who are in a position to give credit get richer, and those who depend upon it get poorer. There are parallels between the credit environment in the local village and the lending situation at the international level."

Is there a way out of the dilemma? Ensminger thinks so. "But it will necessitate a restructuring of international lending priorities and changes in African governmental food policies," she says.

Ensminger has a doctorate in anthropology from Northwestern University. She also has edited a book about the Kikuyu tribe for the late Louis S. Leakey, the world-famous British scientist whom she met while an undergraduate at Cornell University.

Ensminger first traveled to Kenya in 1972 at Leakey's request. She worked with him on the Kikuyu manuscript until his death later that year. At the request of Leakey's wife, Mary, she continued editing the three-volume study for two and one-half years.

Carolyn Sanford

Students, faculty, staff perform in talent show

A showcase of University talent will be spotlighted beginning at 8 p.m. Wednesday, Nov. 6, when the Gargoyle Committee and Community sponsor "WU Talent Night" at the Gargoyle.

Eight acts, featuring students, faculty and staff, will perform in the show. The entertainment will include a stand-up comedy routine and classical music being performed on acoustical guitars.

The show is free and part of the Gargoyle Committee's regular Wednesday night coffee house activity.

For more information, call the student activities office at 889-5994.

Two St. Louisans elected to Board

Two prominent St. Louis civic leaders, Michael N. Newmark and Katherine White Drescher, have been elected to the WU Board of Trustees, Chancellor William H. Danforth has announced.

Newmark is a partner in the law firm of Lewis and Rice. Drescher is coordinator of the Spencer T. and Ann W. Olin Fellowship Program for women attending WU.

Danforth said, "Both Mr. Newmark and Mrs. Drescher have been loyal and very effective supporters of the University. The board will benefit from their counsel and hard work."

Newmark was an attorney-adviser to the United States Tax Court in Washington, D.C., and served as president of the Bar Association of Metropolitan St. Louis in 1974 and 1975. He has been involved heavily in a number of WU alumni activities and has served on many local and national committees in behalf of the Jewish community.

Drescher has served previously as assistant for special projects to the chancellor. She also has been associated with a number of local and national civic activities, including the Junior League of St. Louis, the White House Conference on Education, and the Women's Society of WU. She was a St. Louis Globe-Democrat Woman of Achievement for Education in 1983 and serves on the board of directors of St. Louis Children's Hospital.



Katherine Drescher



Michael Newmark

RECORD

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'With what I've got here, I could write a book . . .'

Student's scribbles on scratch pads leads to computer guide

This article is part of a continuing monthly series profiling WU students.

James M. McKelvey, Ph.D., dean of the School of Engineering and Applied Science, received a call from a large West Coast publishing house. "We like the manuscript," the caller said. "We want to publish your book."

"Wonderful," replied the dean. "Only one small problem. I didn't write it."

McKelvey spent several minutes convincing a startled publisher that the author was "the other James McKelvey at Washington University . . . the undergraduate."

Meet the "other McKelvey": a WU junior with a dual major in economics and computer science, lots of chutzpah, and a book called *The Debugger's Handbook — A Guide to UCSD Pascal* due for release in January by Wadsworth Publishing Co., one of the country's largest publishers of educational materials.

"I never intended to write a book," says the 20-year-old McKelvey. "I was just trying to make it through sophomore computer programming class. My programs wouldn't run because I kept getting error messages," he says.



James M. McKelvey Jr.

Jim scoured libraries for a book listing possible errors in Pascal (a computer language popular in education). There weren't any. In desperation, he began listing all the error messages or "bugs" he encountered, adding a description of each. He filled the backs of scratch pads and old printout sheets with notes. By spring of 1984, Jim had amassed a sizable stack of paper. He turned to a friend one evening and said, "With what I've got here, I could write a book. . . ."

Working with encouragement from Robert A. Rouse, Ph.D., associate director of the Center for the Study of Data Processing (CSDP), and Will D. Gillett, Ph.D., associate professor of computer science, Jim compiled his notes into a book format.

He wrote, typed, illustrated, collated and bound the first copy. CSDP, anxious to have the reference, paid for the printing costs in return for copies of the finished book.

After it was completed, Jim learned that Apple computers operate on a virtually identical language called Apple Pascal. Realizing a potentially huge market, he revised the book and typeset a second printing using CSDP's laser-typesetter. This time he sold 125 copies to five area high schools that teach Pascal for their Apple systems and printed enough copies to send to publishers.

He received several offers from major publishers, finally choosing a "West Coast publisher because I thought they'd appreciate my sense of humor."

In *Debugger's Handbook*, he pokes fun at computer programmers, computer scientists and computers. He ribs college students, professors, Mr. Rogers, macho men, the governments of the United States and Soviet Union, and most everything in between, including himself.

"Computer specialists are always so serious. I like to yuck it up a bit. I've gone through it myself so I try to make it as painless as possible."

Yet one peek inside the cover shows there is as much substance as sarcasm. Jim's book has withstood the critical eye of three technical editors (computer scientists who reviewed the book's accuracy). He is not intimidated by experts who are thrice his age.

He devotes the book's first half to a discussion of program design philosophy. "These are things never discussed in the classroom," he explains. "It bothered me that they teach you specific rules to follow, but they never tell you why."

The second half is the only listing of compiler error messages for Pascal language in existence.

The book will have a first printing of 7,500 copies and the publisher expects a second print. But it has opened some other doors for Jim McKelvey: One chapter will be reprinted in *Classroom Computer Learning* magazine. An editor from *InCider Magazine*, the Apple user magazine, read the book and asked Jim to write reviews of new software on the market.

And signed contracts for two more books are nestled snugly in Jim's hip pocket. The second book, which Wadsworth hopes to publish shortly after the first, is a similar discussion of Turbo Pascal. "Turbo is the really hot, new computer language," notes Jim, "and the marketing people are more excited about it than the first one." The third book will be on "C" language.

But Jim is still a student first. This fall he has hit the books in advanced economics at London's prestigious School of Economics, where he hopes to eke out enough time to put the final touches on his second effort.

Any more books in the offing? "Who knows, let's see how the first books sell," Jim laughs.

Robert Brock



Baritone Andrew Gallacher portrays King George III of England in "Eight Songs for a Mad King."

The Fires of London present music, drama

The Fires of London, a chamber music/theatre group, will perform at 8 p.m. Tuesday, Nov. 19, at Edison Theatre.

The Fires of London, under the direction of composer Peter Maxwell Davies, is a group of six musicians who play, sing and act Maxwell Davies' dramatic musical scores. They have brought the music/theatre genre to world attention and gained an international reputation through their appearances on four continents and their records, broadcasts and television appearances.

At Edison Theatre, the group will present "Le Jongleur de Notre Dame" and "Eight Songs for a Mad King." "Le Jongleur" recounts the French medieval legend of a juggler who wanders into a monastery. The juggler (Jonny James) offers a statue

of the Virgin Mary the only gift he can — a juggling act. The statue of Mary (violinist Madeleine Mitchell) comes to life and accepts the juggler's gift with a sweet violin melody. The 45-minute piece will feature a local children's band.

In "Eight Songs for a Mad King," baritone Andrew Gallacher, who portrays King George III of England, sings of the last days of the demented king. In his madness, King George tries to teach his pet bullfinches to sing. The mad king's vocal score spans four octaves.

Tickets are \$10 to the general public, \$8 to senior citizens and \$5 to students. For tickets, call the Edison box office at 889-6543.

Financial assistance for this performance has been provided by the Missouri Arts Council, a state agency.

Metz performs harpsichord recital

The Department of Music will present Charles Metz, Ph.D., WU applied music instructor, in a harpsichord recital at 8 p.m. Saturday, Nov. 9, in Graham Chapel. Admission to the concert is free.

The recital will feature works by George Frederic Handel, Johann Sebastian Bach and Domenico Scarlatti. This year is the 300th anniversary of the birth year of the three composers.

Metz received his doctorate in historical performance practice from WU in 1981. He has taught harpsichord here for the past 10 years.

The recital will be performed on an authentic duplication of a French harpsichord made by Benoit Stehlin in 1760, and now housed at the Smithsonian Institution in Washington, D.C.

For more information, call 889-5574.

MEDICAL RECORD

Laser therapy improves diabetic vision loss

A new laser technique called "modified grid" can reverse the leading cause of vision loss in diabetics — a previously untreatable condition known as diffuse diabetic macular edema — in nearly 100 percent of cases, according to a WU researcher who presented results Oct. 2 at the annual meeting of the American Academy of Ophthalmology.

R. Joseph Olk, M.D., assistant professor of ophthalmology at WU School of Medicine, presented the first research results proving that laser therapy can eliminate macular edema, a buildup of fluid in the macula, a tiny part of the retina that is located at the back of the eye and is most responsible for visual acuity. In addition the therapy preserves, and in many cases improves, vision that was impaired because of the condition.

There are between five and ten million diabetics in the United States alone, and of those, approximately 50,000 are legally blind. Many diabetics have impaired vision because of vitreous hemorrhaging and retinal detachment due to proliferative diabetic retinopathy and its complications; however, the overwhelming majority of diabetic patients lose vision because of diabetic macular edema. Research results published in 1976 proved that a laser therapy called "pan retinal photocoagulation" can reduce by more than 50 percent the incidence of severe visual loss due to proliferative retinopathy. Those findings did not address macular edema, which affects a much larger number of patients.

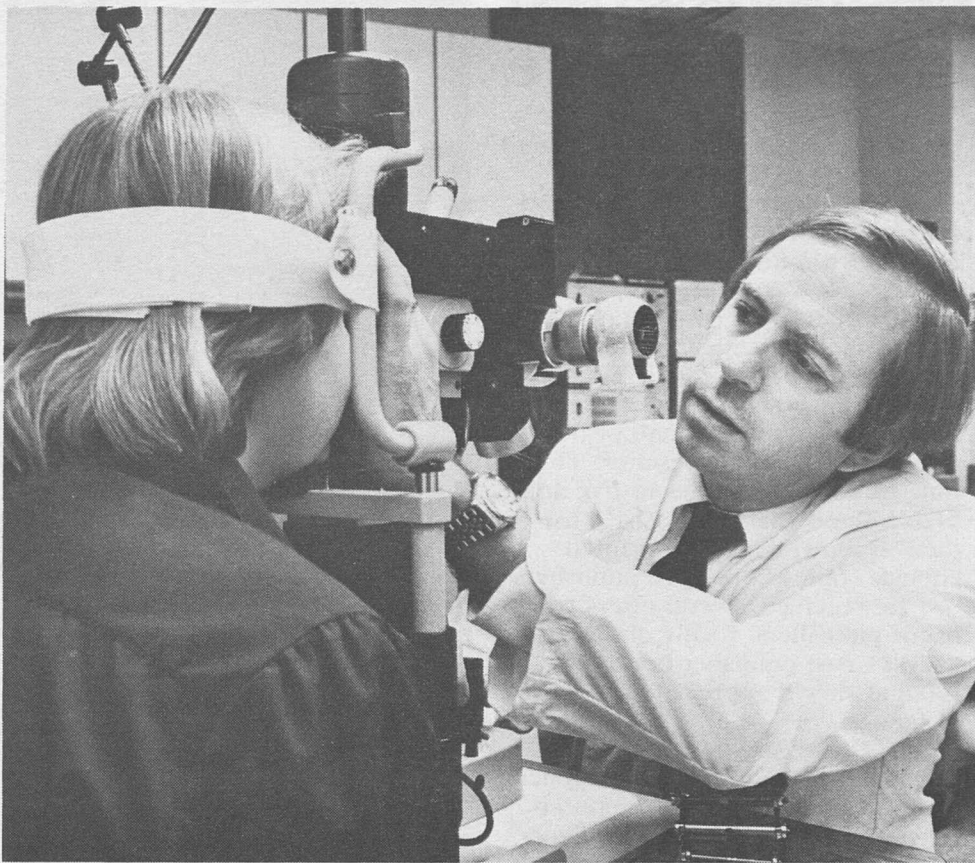
Olk presented results of a three-year randomized, prospective clinical trial of a type of laser treatment called modified grid photocoagulation. The 92-patient study was conducted at the School of Medicine and Barnes Hospital, both part of the WU Medical Center.

Olk applied modified grid laser treatment to nearly half of the eyes of the patients, comparing visual results in treated eyes to those in untreated eyes over 12- and 24-month follow-up periods. His findings indicate benefits of modified grid laser that no previous study has shown.

"In eyes with diffuse diabetic macular edema, the treatment significantly improves visual acuity, both at 12 and 24 months," Olk explains. "What's more, eyes that are not treated have significantly worse visual acuity at 12 and 24 months, compared to treated eyes."

Of 160 eyes studied, 82 were assigned to treatment and 78 were observed as controls. Macular edema was reduced in all 82 treated eyes, but there was no spontaneous reduction of fluid in any eyes of the control group. A follow-up in 149 eyes after 12 months showed that visual acuity improved by at least two lines in 33 percent of the treated group, compared to 7 percent in the controls. Vision worsened in only 4 percent of the treated eyes, but in 27 percent of the observation group.

In 79 eyes checked after 24 months, vision had improved in 45 percent of treated and 8 percent of untreated eyes. Acuity had become worse in 10 percent of the treatment group, as opposed to 43 percent of the control group.



R. Joseph Olk, M.D., assistant professor of ophthalmology, performs "modified grid" laser treatment on Karen Mayfield, a WU junior majoring in fine arts, who has experienced a vision loss due to diabetes. The new laser technique can reverse the leading cause of vision loss in diabetics — diffuse diabetic macular edema — in nearly 100 percent of cases.

The study also found that visual prognosis is not altered by the presence of such risk factors as systemic hypertension, systemic vascular disease, initial poor vision or cystoid macular edema, a more advanced form of the condition. Until now, many ophthalmologists have believed that there is little hope of improving vision in patients who have one of those risk factors in addition to diffuse diabetic maculopathy.

There is a major side effect: patients report seeing either grid-like spots or a haze over the treated eye. According to Olk, that effect diminishes with time, but never entirely disappears. He hopes that studies with other types of laser may produce a technique that overcomes this side effect.

Olk predicts that the findings will have a major impact on ophthalmologists' management of diabetic patients with diffuse macular edema.

"In the past, most ophthalmologists, have not even considered recommending grid, modified grid or any form of laser treatment, because results have not been very promising," he says. "Most ophthalmologists have told their patients that there basically is nothing that can be done."

"Now, they'll be able to reverse their thinking and use this technique to reduce severe vision loss due to diabetic macular edema in this large group of patients."

Modified grid photocoagulation is not entirely new, Olk emphasizes. Many previous investigators have made important contributions in developing the technique, but his study is the first to provide statistically significant data proving its effectiveness. The mechanism by which modified grid photocoagulation works is not yet understood.

For the patient, Olk points out, the 15-minute laser treatment is very much like a routine office visit. The treatment is painless, and is done in

an outpatient surgery suite. After the treatment, the patient is sent home with no restrictions, and is asked to return in four months for a follow-up visit.

Often Olk says, more than one treatment is necessary. Two-thirds of the patients received two or three treatments, depending on the rate of improvement seen every four months. The initial laser therapy session costs approximately \$1,000, and is covered by insurance; patients are not billed for supplemental treatments.

Debra Bernardo

National medical colleges association installs Virginia Weldon as chairman

Virginia V. Weldon, M.D., deputy vice chancellor for medical affairs at WU School of Medicine, was installed Oct. 29 as chairman of the Association of American Medical Colleges (AAMC) at the organization's annual meeting in Washington, D.C.

This marks the first time in the AAMC's 109-year history that a woman has been chosen to lead the Washington, D.C.-based association. With a membership of more than 100,000, the AAMC represents the entire community of academic medicine, including 127 medical schools, 430 teaching hospitals and more than 70 biomedical societies. It is a leader in developing programs to advance medical education, biomedical research and health services in the United States.

Weldon will head the AAMC Assembly, which oversees the activities of the three councils and one organization that govern the association. They are the Council of Deans, the Council of Teaching Hospitals, the Council of Academic Societies and the Organization of Student Representatives.

Weldon has been active in medical education at the national level for

Stupp Foundation funds work in geriatric neurology

The Norman J. Stupp Foundation has created a special fund to support work in geriatric neurology at WU School of Medicine.

Through annual contributions, the Stupp Foundation Fund for Research and Education in Geriatric Neurology will support scientists and educators who specialize in impairments that are the result of multiple strokes and other dementias. Those impairments include deterioration in mental function, mood and behavior, and often create burdens for caregivers. The geriatric neurology team will devote special attention to problems of patients, their families, and the staff at Bethesda-Dilworth Memorial Home in St. Louis.

The Stupp Fund is established through the Department of Neurology and Neurological Surgery at the School of Medicine. William M. Landau, M.D., professor and head of the Department of Neurology, will administer the fund with advice from members of the University's Memory and Aging Project, directed by Leonard Berg, M.D. Landau and Berg are both on staff at Barnes, Children's and Jewish hospitals, all sponsoring institutions of the WU Medical Center.

The Norman J. Stupp Foundation, established in 1954, has channeled its contributions to Bethesda Hospital and Homes and to Missouri Boys' Town. It also provides scholarships in civil engineering at WU.

Stupp, who died in 1979, was a native of St. Louis who received a degree in civil engineering from WU in 1922. He joined the Stupp Brothers Bridge and Iron Company, founded by his grandfather in 1856, and with his brother expanded its operations considerably. He was a recipient of the Distinguished Alumni Award from WU.

a number of years, serving as chairman of the Council of Academic Societies and as a member of the Executive Council of the AAMC. She is also a member of the Commonwealth Task Force on Academic Health Centers. She is recognized nationally as a spokesperson on issues in medical education and biomedical research, and on legislation affecting health care, especially its costs. A specialist in pediatric endocrinology, she is well known for her studies of mechanisms of abnormal growth in childhood.

Weldon is vice president of the WU Medical Center and professor of pediatrics at the School of Medicine. She also is on staff at Barnes and Children's hospitals. She came to the university in 1968 as an instructor, and was named professor of pediatrics in 1979.

She earned the doctor of medicine degree from the University of Buffalo School of Medicine and the bachelor's degree from Smith College. Weldon was an intern and assistant resident in pediatrics at The Johns Hopkins Hospital in Baltimore, and later was a fellow and instructor at Johns Hopkins Medical School.

'Center of excellence' receives \$3.4 million

WU School of Medicine has been awarded \$3.4 million as one of four institutions in the country to be designated a Sen. Jacob Javits Center of Excellence in Neuroscience.

The program, sponsored by the National Institutes of Neurological Diseases and Stroke, stipulates that "the centers should be dedicated to finding the cause, prevention and cure for neurological diseases, and shall be designed so that multidisciplinary teams of the most capable scientists address fundamental issues of nervous system structure and function."

Gerald D. Fischbach, M.D., Edison professor of neurobiology and head of the Department of Anatomy and Neurobiology, and Dale Purves, M.D., professor of neurobiology, will direct the Center at the School of Medicine which includes Jonathan Cohen, Ph.D., professor of neurobiology and biological chemistry; Jeffrey Lichtman, Ph.D., assistant professor of neurobiology; John Merlie, Ph.D., associate professor of pharmacology; Joshua Sanes, Ph.D., associate professor of neurobiology; and Mark Willard, Ph.D., professor of neurobiology and biological chemistry.

This research team will undertake a five-year study of synapses, the connections between nerve cells that transmit signals from one nerve cell to another. They will examine the formation of synapses and the degree to which these connections change over time. Their work may help solve one of the major problems confronting modern neurobiology: how the formation and malleability of synapses explain the remarkable adaptive abilities of the nervous system. In addition, they hope to advance knowledge about pathological conditions in which synaptic connections fail to form properly or degenerate prematurely.

More than 60 applications were received for the Center of Excellence in Neurosciences award, a new program proposed by Congress to honor Sen. Jacob Javits of New York. The guidelines state that the merit of applications will be judged on the credentials and past research accomplishments of the investigators and on the significance of the area of research proposed. The other three centers are at Yale University, Rockefeller University and the University of California-San Francisco.

Burton, Gottlieb join Javits Award list

Two faculty members at WU School of Medicine will conduct research for the next seven years with almost \$1.5 million in funding from Javits Neuroscience Investigator Awards.

Recipients of the most recent Javits Awards include Harold Burton, Ph.D., professor of neurobiology and associate professor of physiology and biophysics; and David I. Gottlieb, Ph.D., associate professor of neurobiology and biochemistry.

WU faculty members have received eight of the 125 Javits Neuroscience Investigator Awards presented since October 1983, when the highly competitive awards program began. Award recipients are selected three times a year.

The U.S. Congress gives the awards in honor of Sen. Jacob K. Javits of New York, on recommendation of the National Advisory Neurological and Communicative Disorders and Stroke Council of the National Institutes of Health. Javits suffers from amyotrophic lateral sclerosis (ALS), more commonly known as Lou Gehrig's disease. ALS is a degenerative neuromuscular disorder that attacks the nerve cells that control muscles.

The awards, given to investigators who have submitted regular research grant applications for compe-

titive review, encourage research and research training in communicative and neurological disorders. The prestigious grants provide a seven-year commitment of support to the researchers who receive them.

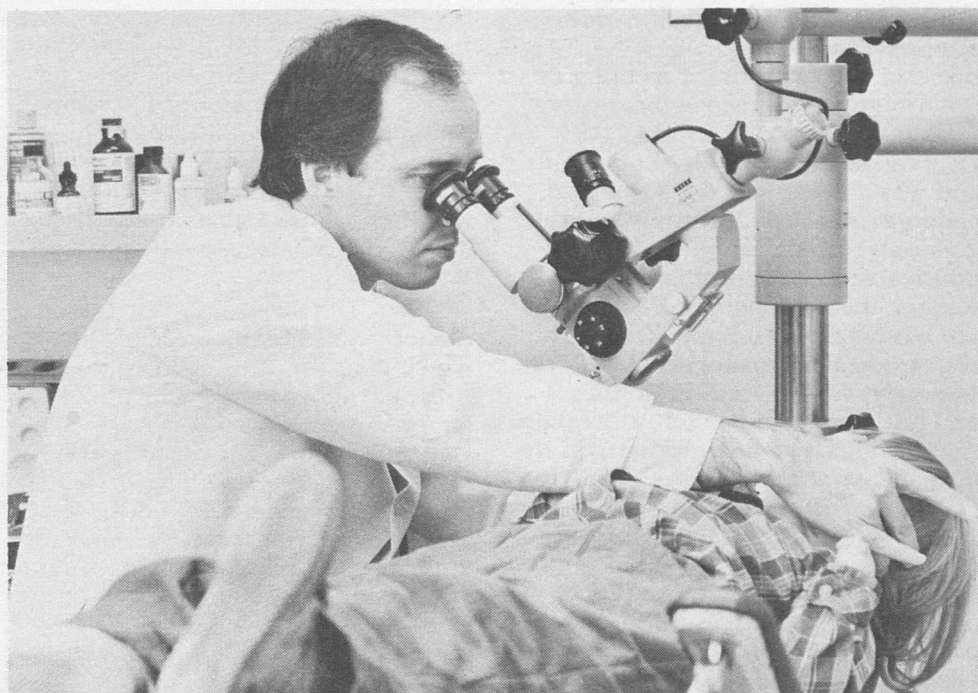
Burton's research is designed to learn more about neural codes associated with the sense of touch. His studies should illuminate the role that specific areas of the cerebral cortex play in texture perception and the way in which neuronal activity relates to sensory discrimination behavior. These experiments may facilitate understanding of how the cerebral cortex operates in learning to recognize touched objects, such as braille symbols and tactual graphics for the visually impaired.

Gottlieb's research goal is to understand the mechanisms that control the expression of important neuronal properties during the development of the mammalian central nervous system. He plans to use monoclonal antibodies that recognize subsets of neurons to determine when cell specific antigens — substances that cause antibodies to form — are first developed. He also hopes to find out if the formation of appropriate neural connections is necessary to the development of cell specific antigens.

Grants available for cancer researchers

Grant applications are now being accepted by the WU Committee on Cancer Research for research proposed for the present year. A limited number of awards can be made for amounts up to \$7,500 for basic or applied research related to cancer. The awards, which are funded by The American Cancer Society, are

especially intended for junior faculty members or research fellows who have no funds with which to carry out pilot studies. For further information, write David W. Scharp, M.D., chairman, Cancer Research Committee, Department of Surgery, Box 8109, WU School of Medicine, or call 362-8320.



Rodney P. Lusk, M.D., director of the new WU Center for Communication Disorders of Children, examines ear of Kimberly Banning from Decatur, Ill. The center evaluates and treats children with ear, nose and throat problems as well as hearing and speech impairments.

Lusk directs pediatric center for communication disorders

Rodney P. Lusk, M.D., has been named director of the new Center for Communication Disorders of Children at WU School of Medicine.

The Center for Communication Disorders is located at Children's Hospital, a sponsoring institution of the WU Medical Center. It is part of the Division of Pediatric Otolaryngology at the School of Medicine.

Children with communication disorders, such as hearing impairment and delayed speech development, are diagnosed and treated at the center. The staff is a team of pediatric otolaryngologists, speech language pathologists and audiologists.

The center also evaluates and treats children with ear, nose and throat problems. In childhood, Lusk says, a number of diseases can affect the airway, causing symptoms that range from snoring to severe airway obstruction. Other frequently treated

childhood problems include infections or masses in the neck, infections of the nose and sinuses, and ear problems.

Lusk joined the WU faculty earlier this year as an assistant professor of pediatric otolaryngology in the Department of Otolaryngology. He formerly was director of the pediatric otolaryngology division at the University of Iowa College of Medicine. His research focuses on the aerodynamics of the pediatric airway and on head and neck masses in children.

He received the medical degree in 1977 from the University of Missouri-Columbia, where he also completed an internship in general surgery. He served a residency in otolaryngology at the University of Iowa Hospitals and Clinics, and a fellowship in pediatric otolaryngology at Children's Hospital of Pittsburgh.

Cryer named director of Division of Metabolism and Endocrinology

Philip E. Cryer, M.D., has been named director of the Division of Metabolism and Endocrinology in the Department of Medicine at WU School of Medicine.



Philip Cryer, M.D.

His appointment was announced by David M. Kipnis, M.D., Adolphus Busch Professor and head of the Department of Medicine. Cryer succeeds William H. Daughaday, M.D., who has

stepped down as director but will continue in his position as the Irene E. and Micahel M. Karl Professor in Endocrinology and Metabolism.

At the School of Medicine, Cryer is professor of medicine and program director of the General Clinical Research Center (GCRC), a federally funded unit that supports biomedical research in humans. He is the immediate past president of the national

Association of Program Directors, GCRC.

In addition, Cryer is director of the Clinical Research Facility at the medical school's Diabetes Research and Training Center. He is on staff at Barnes Hospital and a consulting physician at Children's Hospital.

Cryer received his medical degree in 1965 from Northwestern University. He completed an internship and residency in medicine at Barnes Hospital, and a fellowship in metabolism at the School of Medicine and Barnes. He joined the medical school faculty in 1971 as an instructor, and was named professor of medicine in 1981.

He is a diplomate of the American Board of Internal Medicine in internal medicine and in endocrinology and metabolism. He is active in a number of professional societies, serving as vice president of the American Society for Clinical Investigation and as vice chairman of the committee on research for the American Diabetes Association.

NOTABLES

James Alt, Ph.D., professor in the political science department, participated in the 81st annual meeting of the American Political Science Association, held in New Orleans. Alt chaired the British Politics Group and was a discussant for a political economy panel on Elections and the Economy. Other members of the political science department attending the meeting were: **Randall L. Calvert**, Ph.D., associate professor, chaired a panel on Models of Imperfect Information in Politics and presented a paper on "Uncertainty, Asymmetry and Reciprocity in Repeated Two-Player Games"; **Charles Franklin**, instructor, gave a paper on "Shifting Values and the Systematic Adjustments of Issue Positions"; **Arnold J. Heidenheimer**, Ph.D., professor, was a discussant for a panel on Political Transformation in Liberal Democracies; **David Lalman**, Ph.D., visiting assistant professor, presented a paper on "Conflict Resolution and Peace"; **Victor T. Le Vine**, Ph.D., professor, participated in a round-table discussion on "Area Studies and Theory Building in Comparative Politics: A Stocktaking"; **H.W. Perry Jr.**, instructor, was a discussant for a panel on Executive Branch Influences and Constraints Upon the Federal Courts: Some New Explorations; **Kenneth A. Shepsle**, Ph.D., professor, participated in two round-table discussions on "Marxism and Rational Choice Theory" and gave a paper he co-authored on "Understanding Congressional Government: Woodrow Wilson and the Modern Congress"; and **John Sprague**, Ph.D., professor, gave a paper he co-authored on "Social Influence in an Election Campaign."

Hugh Chaplin Jr., M.D., professor of medicine and pathology and medical director of the Barnes Hospital Blood Bank, received the Morton Grove-Rasmussen Memorial Award of the American Association of Blood Banks at the annual meeting of the AABB in Miami. The award is "in recognition of his contribution to the science of blood banking, including studies on freezing of red cells, elucidation of the cause and ways to prevent febrile transfusion reactions, clarification of the action of complement on the red cell and establishment of criteria for standardizing antiglobulin reagents."

Sol L. Garfield, Ph.D., professor of psychology, was invited to deliver the opening keynote address to an international congress on "Directive Therapy and Eclecticism" held at The Hague, Holland, Oct. 23-25. Garfield's topic was "The Psychotherapy of the Future." He also lectured at the Department of Psychiatry, University of Leiden, on Oct. 22. The title of this lecture was "Problems and Issues in Evaluating the Efficacy of Psychotherapy."

Suzanne Grace, instructor of dance in the Performing Arts Area, won the 1985 MISSOURI DANCING! Choreography Competition for her work, "Captured." Grace's dance was chosen from a field of 24 entrants. The Missouri Arts Council will award her a total of \$1,500 to have the work set for and performed by a Missouri dance company.

Hollis Huston, Ph.D., artist-in-residence in the Performing Arts Area and director of the Holy Roman

Repertory Company, announces that the company's 1985-86 season will be broadcast on National Public Radio stations throughout the country. The most recent additions to the "Holy Roman Radio Network" include stations in Alaska, Virginia, South Carolina, Alabama, Oklahoma, Tennessee, Wisconsin, Michigan and Washington, D.C.

Annelise Mertz, director of the dance division of the Performing Arts Area, has received the annual Abstract Motion Award (the Abby) from Dance St. Louis. The award cites Mertz for her outstanding service to the cultural scene of St. Louis. Mertz was a founder of Dance St. Louis in 1966 and has served as its president and a board member.

J. Neal Middelkamp, M.D., professor of pediatrics, has been appointed to the Residency Review Committee for Pediatrics for a three-year term. This committee of nine pediatricians reviews all pediatric residency training programs and all training programs in the pediatric subspecialties of cardiology, hematology/oncology, neonatology, endocrine/metabolism, and nephrology, and makes recommendations to the American Medical Association's Accreditation Council for Graduate Medical Education.

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The *Washington University Record* will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department, along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number where you can be reached.

Varsity sport of the mind begins Nov. 9

Students at WU are preparing to embark on the varsity sport of the mind — the 1985 College Bowl Tournament where students struggle to accurately answer questions of topics ranging from current political events to famous sports figures.

The tournament will begin Saturday, Nov. 9, and end Monday, Nov. 11, in Mallinckrodt Center. The tournament matches are scheduled for 9 a.m. to 5 p.m. Nov. 9 and 10. On Monday, Nov. 11, the final round of matches will be held at 7 p.m. in the Gargoyle in Mallinckrodt.

The winning WU team will compete in the regional tournament in February. Each member of the victory team will receive a trophy. The location and exact dates of the regional and national tournaments have not been announced.

Susan Burke, coordinator of student activities who is organizing the event, estimates that more than 35 teams will participate in College Bowl this year. The teams are composed of four to six students.

The College Bowl is open to any student. However, no more than two graduate students are allowed on a team. Students are allowed to take part in the event for up to six years.

Elkin's radio drama eavesdrops on faculty coffee room chatter

What do English professors talk about in the coffee room? Tolstoy, Melville, Henry James? The New York Times Book Review? Baseball?

In his radio drama "The Coffee Room," author Stanley Elkin, Ph.D., suggests that more likely topics are Consumer Reports, shamefulness and salaries, with a few insights into Jung and Hawthorne. Elkin is WU Merle Kling Professor of Modern Letters.

Those interested in eavesdropping on such a conversation will have the opportunity at 7:30 p.m., Wednesday, Nov. 13, when KWMU 90.7 FM presents "The Coffee Room." The radio drama features author Elkin with 13 other St. Louis actors. The setting is amazingly similar to WU's English department faculty lounge.

The production is directed by St. Louisan John Grassili and produced by KWMU's Lorin Cuoco and Sean Collins. It was recorded in the UHJ ambisonic (surround sound) format and is the first U.S. radio drama to do so. Following the play, a documentary, "The Making of The Coffee

Room," will air. The documentary is produced by KWMU's Jim Dryden.

In 1979, "Earplay," a radio drama series produced by National Public Radio, commissioned Elkin to write a radio play. The idea was to have writers who had not tackled plays rethink the medium.

The "Earplay" production had some notable actors (namely Edward Hermann and Fred Gwynn), but did not have Elkin in the starring role, nor did it have authentic sound from the University in whose lounge of the English department the drama unfolds.

"The Coffee Room" is funded through assistance from the Missouri Arts Council and Studio Set, KWMU's friends' organization. The broadcast represents the station's commitment to serving the Greater St. Louis area by encouraging creativity and excellence in the arts, as well as to airing high-quality radio drama.

KWMU is the public radio station of the University of Missouri-St. Louis.

'The Coffee Room'

"It's impossible for anyone to say anything that is out of character," says Stanley Elkin in the taped introduction to his radio play "The Coffee Room." That's the premise of his play, which airs at 7:30 p.m. Wednesday, Nov. 13, on KWMU 90.7 FM.

Elkin plays the role of professor Leon Mingus, one of the professors in the English department of a medium-sized private university. The setting is the department's coffee room and Elkin admits that many of the characters in the play are modeled after faculty members in the department at WU.

"I was sitting in the coffee room one day and one of my colleagues said something that sounded familiar to me," he said. "It sounded familiar because he had said it before. Then someone else said something he had said before. I repeated myself, too. All of us repeat ourselves repeatedly."

Elkin had been looking for an idea for a radio play, commissioned by National Public Radio in 1979, to be produced for a program called "Earplay." He decided the coffee room chatter would be a good subject.

KWMU producer Lorin Cuoco thought so, too, when she decided to recreate the play with St. Louis actors. A long-time devotee of Elkin's, Cuoco says: "He's like a male Dorothy Parker; he has the most acerbic wit of anyone I've ever met or read. He takes bits of information from our world and uses them all. It's like a synthesis of our culture."

"I still laugh at some lines in the play. It's hilarious!"

In post-production retrospect, Elkin judged himself critically, both as an actor and a playwright: "I have always thought I was a pretty good actor, but I realized when I heard the tape that I'm not, really," he said. "The other actors were considerably better than I."

If the play were produced a third time, he says, he would direct it. "I would reduce the poetic em-

phasis of the play. A lot of the language is metrical. I would have it delivered more naturalistically, make it more conversational."

The following excerpts are spoken by Mingus who, for some reason, has the best lines. The conversation is disjointed, just as it would occur in a coffee room over lunch. It encompasses cynicism, wit and compassion:

* * *

"East is East, Norm. I just hear the name 'Yale' and I go all booby. I see spires. Proctors. Bookbags by J. Press. Young men named Meriwether poling their punts along the green and racing to tip their batmen and bribe the night porter after a lark." (He sums up all of this later as "the hi-jinks of high birth.")

* * *

After Dick learns that his ex-wife was killed in a car accident, Mingus says: "I think I'm going to cancel my class . . . A colleague has taken heavy losses. I don't intend to chat up angst and alienation with 18-year-olds during the two o'clock hour. I'll stay with my friend."

* * *

"Coffee'd out? It's all right. You'll be back tomorrow. All of you. All of us. If nothing else, we've got to check the mail. Because, frankly, no one gets past the age of 40 without going at least a little crazy. We consolidate. We repeat ourselves like the tides. It ain't an English department here. It's an observatory. I'm hooked on you guys. I get off on your themes; you sound like signature, like handwriting, the intimate human calligraphy of your small talk."

* * *

"I love this room, this palace of anecdotes, these easy targets slow and inflexible. We're logy with habit. This is where we happen to each other. Colleagues, tenured in character. We have personality like fingerprint, the funny little squiggle the counterfeiters miss."

Regina Engelken



Head basketball coach Mark Edwards: "We will have to find the best areas of our game and then exploit them."

Young basketball team strives for successful season

The men's basketball program has made great strides in four years.

With no intercollegiate basketball from 1971-81, the Bears started from scratch four years ago. Hard work and patience by both coaches and players culminated last year as WU earned its first winning season, 15-9, since 1968-69. It was the Bears' best record since 1964-65.

Last year's winning mark was important for head coach Mark Edwards' program. But this year is new and the Bears must begin fresh after losing four starters from the 1984-85 team.

"Every season is a challenge," says Edwards. "No two seasons are alike and 1985-86 is definitely going to be different than 1984-85. We will have to find the best areas of our game and then exploit them."

One area of the game where WU expects to be strong is in the backcourt. Sophomore guard Kevin Suiter, 6-3, has a 13.5 point per game (ppg) average. A former player at DeSmet High School, Suiter is the Bears' lone returning starter. He hit .571 of his field goal attempts in 1984-85.

Team captain Brent Rueter, a junior from Nashville, Ill., is one of the top candidates at the other guard position with the graduation of last year's assist leader Scott Allen.

"Developing the point guard position is one part of our game we're going to have to work hard at," says Edwards. "In our system, it is critical that we have an able person running that position."

Another area that Edwards is concerned with this year is the inside game, especially rebounding. The Bears held their own last season with 6-6 Fred Amos, who averaged 8.6 caroms per game. The responsibility

now shifts to a group of sophomores and freshmen, specifically second-year players Jon Bergman, Seward, Neb., and Carlos Woodson, Los Alamos, N.M.

At the small forward spot, seniors Mark Sparrow, Quincy, Ill., and Joe Polizzi, St. Louis University High School, along with sophomore Paul Jackson, Pittsburgh, Pa., will be expected to carry much of the team's offensive load.

Can the Bears enjoy another winning season after the loss of four starters, including Amos, the school's all-time leading scorer?

"I really don't know what type of season we're going to have," Edwards said. "This group has a great deal of potential, but they're very young. We have some weaknesses — rebounding and experience. But we have strengths as well — defense and depth."

WU has beefed up its schedule and increased the number of games by two, making this the toughest slate since the program was revitalized in 1981.

After playing an exhibition game against the Dutch National team on Wednesday, Nov. 13, the Bears will play back-to-back home games with Division I St. Louis University on Friday, Nov. 22, and then Division III power, Central College, Iowa, on Saturday, Nov. 23.

Other top games for the Bears include contests with Wabash College, DePauw University, Illinois Wesleyan University, McKendree College, Blackburn College and the University of Missouri-St. Louis. WU also will compete in three tournaments — the University of Chicago Tournament, the University of Rochester Tournament and its own Second Annual Lopata Classic.

Theologian details failure of *Secular City* predictions

Twenty years ago, Protestant theologian Harvey Cox predicted the decline of traditional religion as a force in public life in *The Secular City*. Cox will lecture on the outcome of his predictions at 11 a.m. Wednesday, Nov. 13, in Graham Chapel. His talk is titled "Religion in the Secular City."

In *The Secular City*, Cox argued that science and technology would replace religion's influence on society. The theological book, originally written as a study resource for the National Student Christian Federation, became a best-seller that spawned debate throughout the nation and established Cox's reputation as a radical young theologian.

Shortly after the publication of *The Secular City*, Cox noticed the role religion was playing in the Civil Rights movement of the 1960s. Since

then, in arenas as varied as Latin America, Poland, the Middle East and the United States, religion continues to be one of the most important factors in political life. Cox confronts the failure of his earlier predictions in his 1984 book, *Religion in the Secular City: Toward a Post-Modern Theology*.

Cox is Victor S. Thomas Professor of Divinity at Harvard University. He has a doctorate in the history and philosophy of religion from Harvard's Divinity School and is an ordained minister in the American Baptist Church.

His lecture, which is co-sponsored by the Assembly Series and the Council for Inter-religious Concerns (CIRCuit), is free and open to the public. For more information, call 889-4620.

International trade symposium topic

The St. Louis Chapter of AIESEC, a French acronym for the International Association of Students of Economics and Business Management, will sponsor a Nov. 12 symposium titled "Current Issues on International Trade." The symposium will feature three nationally recognized economists, and a representative business leader.

The St. Louis chapter is sponsored by the WU School of Business and is one of 400 groups located in universities in 62 different countries.

The AIESEC symposium will be held in Room 101, Lopata Hall, at the School of Engineering.

The featured speakers and their topics are:

David Walters, chief economist to the assistant U.S. trade representative for trade policy, "Policy Response To The Trade Deficit: Issues

Of The Multilateral Trade Negotiations";

Murray Weidenbaum, Ph.D., former chairman of the President's Council of Economic Advisors and current director of WU's Center for the Study of American Business, "Unemployment U.S. Imports: Dispelling the Myths";

John Qualls, Ph.D., manager of economic forecasting for the Monsanto Co. and professor of international trade and investment at University College, "Japan's Self-Imposed Quotas in the Automobile Industry"; and

James Enyart, director of the international Government Relations for the Agricultural Products of Monsanto, "Non-Tariff Trade Barriers From an International Perspective."

The program, from 4 to 6 p.m., is free and open to the public.

Portrait of a comet—*continued from p. 1*

strument designed to record images electronically at extremely low light levels. The CCD is mounted on a Fabry-Perot Interferometer — a device consisting of two reflective mirrors placed close together to selectively filter light by wavelength.

Because chemical groups emit light in varying wavelengths, Smith and senior research assistant William Schempp, Ph.D., can observe the concentrations and evolution of specific elements and molecules as they progress from the comet's central core through the coma.

"We want to determine the chemical constituents of the nucleus to make inferences about what the solar nebula was like," says Smith. "Because comets exhibit complex, very fast chemical reactions with the solar wind and solar radiation, we have to look at what happens to the molecular gases as they are expelled by the nucleus and move through the coma."

At each of 10 to 20 areas of the comet, SPIFI will take a series of 30 to 50 pictures at different wavelengths — an image cube. Each picture in the cube contains more than 10,000 pixels, or points of light cor-

responding to specific points on the comet.

"By looking at the same pixel in each of the 30 to 50 pictures, we get a spectra of the comet at that spatial point," Schempp explains. "With 10,000 spectra of the comet at different places, we can understand how the chemistry varies spatially across the face of the coma."

The process produces enormous amounts of data that can take several years to process. Substantial computing power is required to compile the data, then to produce color-enhanced "maps" of the comet detailing the concentrations of specific chemicals in the coma.

When Halley's comet approaches the infield of the solar system, it will become the most scrutinized object in the universe. But only Smith and Schempp will obtain high-resolution spectra. "The simultaneity of knowing where chemicals are and what they are fills in a missing part of the picture," says Smith. "Our work is unique. We think it will add an enormous amount of information to our understanding of comets."

Robert Brock

CALENDAR

Nov. 7-16

LECTURES

Thursday, Nov. 7

2 p.m. Dept. of Microbiology and Immunology Seminar, "Structure, Function and Developmentally Regulated Expression of MYC Family Genes," Fred Alt, professor, Columbia U. Also sponsored by the Howard Hughes Medical Institute. Clopton Aud., Wohl Clinic Bldg., 4950 Audubon.

2:30 p.m. Black Arts and Sciences Festival Lecture with Maxine Waters, assemblywoman from Los Angeles. Graham Chapel.

4 p.m. Dept. of Anatomy and Neurobiology Robert J. Terry Lecture, "Heparin and Growth Regulation in the Vascular Wall and Other Systems: A New Biological Role for Heparin?" Morris J. Karnovsky, Shattuck Professor of Pathological Anatomy, Harvard Medical School. Carl V. Moore Aud., 660 S. Euclid.

4 p.m. Public Affairs Thursday Series, "The Committee on Disarmament: The Agony and the Ecstasy," John A. Miskel, senior scientist, nuclear chemistry division, Livermore National Laboratory. Eliot 200 C & D.

4 p.m. Dept. of Chemistry Seminar, "Classical and Non-Classical Phase Transfer Catalysis," Charles Liotta, prof. of chemistry, Georgia Institute of Technology. 311 McMillen.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Geology of the Adirondacks; Their Birth, Death and Resurrection," Yngvar W. Isachsen, of the New York State Geological Survey. 102 Wilson.

4 p.m. Dept. of History and Jewish and Near Eastern Studies Lecture, "The Impact of Immigration on Britain, 1880-1914," Aubrey Newman, WU Gloria M. Goldstein Distinguished Visiting Professor in History. Cohen Lounge, Busch Hall.

8 p.m. Dept. of Romance Languages and Literatures Lecture, "Recent Trends in Latin American Poetry," Merlin Forster, chairman, dept. of Spanish and Portuguese, U. of Texas. Hurst Lounge, Duncker Hall.

Friday, Nov. 8

11 a.m. Dept. of Chemistry Seminar, "Metal Ion Mediated Oxygenation of Organic Substrates," Joan S. Valentine, prof. of chemistry, U. of Calif.-Los Angeles. 311 McMillen.

Noon. The Left Forum, "Star Wars," Carl Bender, WU prof. of physics. Lambert Lounge, Mallinckrodt Center.

3:30-5 p.m. "A New Look at a St. Louis Writer: Fannie Hurst." Midwest Modern Language Association Annual Meeting, co-sponsored by WU, UMSL and St. Louis U. Pavilion Suite I of Marriott Pavilion.

Monday, Nov. 11

1 p.m. Women's Studies Program Informal Discussion, "Sexism in Language," Luise Pusch, prof. of German, Oldenburg U., West Germany. Women's Resource Center, 157 Umrath.

4 p.m. Dept. of Romance Languages and Literatures Lecture, "Raphael and Sixteenth Century Poetry," Roberto Fedi, U. of Florence. Hurst Lounge, Duncker Hall.

8 p.m. Dept. of Germanic Languages and Literatures Lecture, "Das Deutsche als Mannersprache," Luise Pusch, prof. of German, Oldenburg U., West Germany. Hurst Lounge, Duncker Hall.

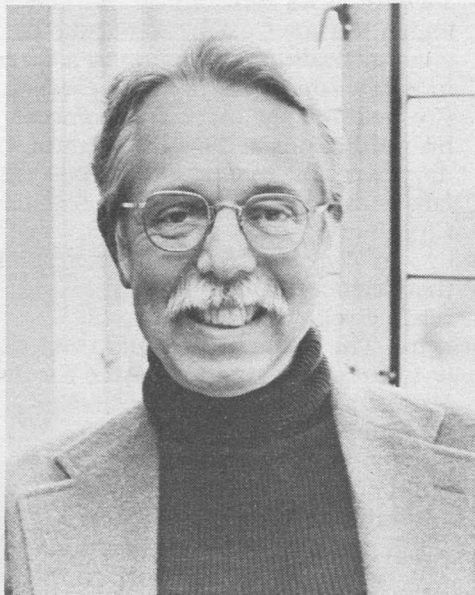
4 p.m. Dept. of Biology Seminar, "Cell Surface and Cell Interaction During Bone Development," Philip Osdoby, asst. prof. of anatomy in biomedical science and pathology, WU dental school. 322 Rebstock.

Tuesday, Nov. 12

2 p.m. Center for the Study of Data Processing Symposium, "Future Directions of Software Development," Benn Konsynski, U. of Ariz. Alumni House.

4 p.m. Dept. of Physics Colloquium, "Quantum Hydrodynamics: A Relativistic Theory of Nuclear Structure," Brian Serot, physics dept., Indiana U. 204 Grow.

3:30 p.m. African and Afro-American Studies Lecture, "Africa, Islam and Christianity," Michael Gomez, WU asst. prof. of African and Afro-American Studies. Women's Bldg. Lounge.



Harvey Cox

Wednesday, Nov. 13

11 a.m. Assembly Series Lecture, "Religion in the Secular City," Harvey Cox, Victor Thomas Professor of Divinity, Harvard Divinity School. Graham Chapel.

7:30 p.m. School of Fine Arts Lecture with David Lund, painter. Bixby Gallery, Bixby Hall.

Thursday, Nov. 14

4 p.m. Dept. of Chemistry Seminar, "The Use of Photo Affinity Probes in Protein Chemistry," Robert Hodges, prof. of biochemistry, U. of Alberta, Canada. 311 McMillen.

4 p.m. Public Affairs Thursday Lecture Series, "The Democratization of Latin America: Can It Last?" Barry Ames, WU assoc. prof. of political science. Eliot 200 C & D.

4 p.m. Central Institute for the Deaf Seminar, "Development of a Digital Hearing Aid and Fitting Procedure: Progress Report, First Two Years," Robert E. Morley Jr., WU asst. prof. of electrical engineering, and A. Maynard Engebretson, Gerald Popelka, Arthur Niemoeller and Arnold Heidebreder, all of CID. CID Aud., 2nd fl., Clinics and Research Bldg., 909 S. Taylor Ave.

4:30 p.m. Dept. of Mathematics Colloquium, "Nonisotropic Differential Calculus in Several Complex Variables," J. Bruna, professor, Universitat Autònoma de Barcelona and U. of Wis. 199 Cupples I.

Friday, Nov. 15

Noon. The Left Forum, "Star Wars," a follow-up discussion with Carl Bender, WU prof. of physics. Women's Bldg. Lounge.

3 p.m. Dept. of Mathematics Analysis Seminar, "Applications of the Large Sieve in Harmonic Analysis," Long Ruilin, professor, Science Academy of China. 113 Cupples I.

MUSIC

Thursday, Nov. 7

7 p.m. Black Arts and Sciences Festival Performing Arts Night with WU Black Repertory Choir singing black spirituals. Drama Studio, Mallinckrodt Center.

Saturday, Nov. 9

8 p.m. Dept. of Music Harpsichord Recital by Charles Metz, WU applied music instructor. Graham Chapel.

Saturday, Nov. 16

8 p.m. Dept. of Music Graduate Choral Recital with Douglas Weeks. Delmar Baptist Church, 6195 Washington Ave.

PERFORMANCES

Friday, Nov. 8

8 p.m. Performing Arts Area Presents "Salome," written by Oscar Wilde, at Edison Theatre. Directed by Herbert Metz, WU assoc. prof. of drama. (Also Sat., Nov. 9, Fri., Nov. 15, and Sat., Nov. 16, same time, Edison). Tickets are \$5 to the general public and \$4 to WU faculty, staff, students and senior citizens. For more info., call 889-6543.

EXHIBITIONS

"Literary and Historical Autographs: An Exhibit Drawn from WU Libraries' Autograph Collections." Through Dec. 7. Olin Library Special Collections, 5th level. 8:30 a.m.-5 p.m. weekdays.

"The Work of Robert Andrew Parker." Through Nov. 21. Bixby East Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"Pastels by David Lund." Through Nov. 21. Bixby West Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"Faculty Show." Through Dec. 1. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Surgical Illustrations of the 16th and 17th Centuries." Through Nov. 29. 8:30 a.m.-5 p.m. weekdays. Medical Library Archives and History of Medicine Annex, 615 S. Taylor Ave.

"Images of Aristocrats and Republicans." Through Dec. 29. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Diversity in the Salon." Through Dec. 29. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Photographs in the WU Collection." Through Dec. 29. Gallery of Art, print gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Brothers Grimm: 200 Years." Nov. 7-Dec. 16. Olin Library, level 3. Regular library hours.

FILMS

Thursday, Nov. 7

7 and 9:30 p.m. WU Filmboard Series, "Blood of a Poet." \$2. Brown Hall.

Friday, Nov. 8

7 and 11:30 p.m. WU Filmboard Series, "Witness," and "Gallipoli," at 9:15 p.m. \$3. Brown Hall. (Also Nov. 9, same times, and Sun., Nov. 10, "Witness," at 7 p.m. and "Gallipoli," at 9:15 p.m., Brown.)

Monday, Nov. 11

7 and 9:15 p.m. WU Filmboard Series, "Some Like It Hot." \$2. Brown Hall. (Also Tues., Nov. 12, same times, Brown.)

Wednesday, Nov. 13

7 and 9 p.m. WU Filmboard Series, "The Seventh Seal." \$2. Brown Hall. (Also Thurs., Nov. 14, same times, Brown.)

Friday, Nov. 15

7:30 and 9:30 p.m. WU Filmboard Series, "Pinocchio." \$2. Brown Hall. (Also Sat., Nov. 16, same times, and Sun., Nov. 17, 1 p.m. Brown.)

11:30 p.m. WU Filmboard Series, "Chitty Chitty Bang Bang." \$2. Brown Hall. (Also Sat., Nov. 16, same time, and Sun., Nov. 17, 3 p.m., Brown.)

SPORTS

Friday, Nov. 8

6 p.m. Men's and Women's Swimming, WU vs. Northeast Missouri State U. Millstone Pool.

Saturday, Nov. 9

11 a.m. Men's and Women's Swimming, WU Relays. Millstone Pool.

Wednesday, Nov. 13

5 p.m. Men's and Women's Swimming, WU vs. St. Louis U. Millstone Pool.

7:30 p.m. Men's Basketball, WU vs. Dutch National Team. Field House.

MISCELLANY

Thursday, Nov. 7

9-11 a.m. Personal Computing Education Center Short Course 333, "Microcomputing — DOS Fundamentals," Pat Taylor, CSDP associate. (Also Nov. 8-13, same time.) Free to WU community. To register, call 889-5813.

10:30 a.m.-noon. Personal Computing Education Center Short Course 205, "Doing Graphics with Telegraph," Scott Seely, CSDP senior associate. (Also Nov. 14 and 21 and Dec. 5, same time.) Free to WU community. To register, call 889-5813.

12:30 p.m. Hunger Awareness Week Soup and Bread Luncheon and Discussion. Newman Center, 6352 Forsyth Blvd.

1-3 p.m. Personal Computing Education Center Short Course 002, "Computing Basics," Karen Sanders, computer specialist. Free to WU community. To register, call 889-5813.

Friday, Nov. 8

7:30 p.m. Inter-Varsity Christian Fellowship Meeting. Green Stuffs Line, Wohl Center.

Saturday, Nov. 9

9 a.m.-5 p.m. College Bowl Tournament. (Also Sun., Nov. 10, 9 a.m.-5 p.m. and Mon., Nov. 11, 7 p.m.) Mallinckrodt Center.

Sunday, Nov. 10

7:30-10:30 p.m. Israeli and International Folk Dancing. Sponsored by Hillel and International Folk Dancing Society. Umrath Lounge.

Monday, Nov. 11

12:45 p.m. Society of Professors Emeriti Luncheon with Robert L. Virgil, dean of the WU School of Business, discussing the programs of the business school. Whittemore House, 6440 Forsyth Blvd.

Tuesday, Nov. 12

7 p.m. Learning Center Seminar, "Get It Together for Exams: A Workshop on Time Management, Studying and Test-Taking." Liggett Center Lounge.

Wednesday, Nov. 13

7:30-9 p.m. Learning Center Seminar, "Improve Concentration: Tips on Concentration and Controlling Distractions." 312 Women's Bldg.

Thursday, Nov. 14

4 p.m. Hunger Awareness Week, talk by hunger expert Carol Joy. For more Awareness Week activities, see story on p. 1. Graham Chapel.

7:30-9 p.m. Learning Center Seminar, "Get It Together for Finals: Tips on Time Management, Studying and Test-Taking." 312 Women's Bldg.

Calendar Deadline

The deadline to submit items for the Nov. 21-Dec. 7 calendar of the *Washington University Record* is Nov. 7. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.